

SUPERFUND REMOVAL SITE EVALUATION

I. SITE NAME AND LOCATION:

NAME: 18th and State Avenue Site

ADDRESS OR OTHER LOCATION IDENTIFIER: 1549 State Avenue, Wyandotte County

CITY: Kansas City	STATE: KS	ZIP: 66103
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SITE Description: The site is located in the general vicinity of 18th and State Avenue in Kansas City, Wyandotte County, Kansas, 66103. The legal description of the site is the northwest quarter of section 9, Township 11 south, Range 25 East. Global Positioning system coordinates at the site are approximately - 94.64782 decimal degrees longitude and 39.11613 decimal degrees latitude. The site is within a mixed commercial and residential area of Kansas City, Kansas. The property is zoned for commercial purposes. Properties surrounding this location are commercial; however residential areas are present within 0.25 mile. The site has hosted or currently hosts a commercial car wash, several former and current gas stations, convenience stores, and a geotechnical laboratory.

MAP ATTACHED: X

II. PROGRAM CONTACTS:

REQUESTED BY: Darryl Morgan	DATE OF REQUEST: 2017
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AGENCY/OFFICE: Kansas Department of Health and Environment (KDHE).

MAILING ADDRESS: 1000 SW Jackson St., Suite 410

CITY: Topeka	STATE: KS	ZIP: 66612
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TELEPHONE: 785-296-8065	FAX: 515-281-8895
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SECONDARY/OTHER CONTACT:

AGENCY/OFFICE:

MAILING ADDRESS:

CITY:	STATE:	ZIP:
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III. REMOVAL SITE EVALUATION CRITERIA [40 CFR 300.410(e)]

IS THERE A RELEASE AS DEFINED BY THE NCP:

YES X or

NO _

EXPLAIN:

-Yes, there is minimal evidence of a release is present at the site.

-The only soil detections of note are cyclohexane and methyl cyclohexane in Sample #5. Both cyclohexane and methyl cyclohexane are gasoline constituents according to API and NIH (generally used as octane boosters). The NIH gasoline constituent reference table indicates methyl cyclohexane can be found in gasoline at a concentration above 8,200 milligrams per liter (mg/L) and cyclohexane can be found above 9,800 mg/L. The maximum concentration of cyclohexane was 25 milligrams per kilogram (mg/kg) in Sample #4 and the maximum concentration of methyl cyclohexane was 43 mg/kg in Sample #4. These are well below the EPA Regional Screening Levels (RSLs) of 6,500 mg/kg for cyclohexane. Methyl cyclohexane does not have an established RSL as there is limited toxicity data.

-No trichloroethylene (TCE) or tetrachloroethylene (PCE) or degradation products were detected in soil samples.

Evidence of a release in Groundwater samples:

- Benzene was detected at 27 micrograms per liter (ug/L) in groundwater Sample #104, above its Maximum Contaminant Level (MCL) of 5 ug/L.

-Methyl tert-butyl ether (MTBE) was detected in several groundwater samples and at a maximum of 67 ug/L in Sample #103, above its RSL of 14 ug/L. MTBE was also detected in Sample #104 above its RSL at 39 ug/L, Sample #109 at 36 ug/L, 37 ug/L in Sample #111/MW-A, and 18 ug/L in MW-7/Sample #112. MTBE is a common gasoline additive.

-The only TCE detections were 4.2 ug/L in Sample #112/MW-7 and 0.94 ug/L in Sample #109/SB-11, below its MCL of 5 ug/L in all detections.

-Trace detections of the TCE degradation compound cis-1,2-dichloroethene were found in Samples #109/SB-11 and #112/MW-7 with the maximum detection of 6.9 ug/L in Sample #112/MW-7, below its MCL of 70 ug/L.

IS THE SOURCE A FACILITY OR VESSEL AS DEFINED BY THE NCP: EXPLAIN: YES X or NO _

Sources include an unattributed ground water plume of TCE and TCE degradation

products and at least one known source of petroleum contamination related to USTs.

DOES THE RELEASE INVOLVE A HAZARDOUS SUBSTANCE, OR POLLUTANT OR CONTAMINANT AS DEFINED BY THE NCP: YES X or NO

EXPLAIN:

- TCE is a hazardous substance according to the NCP. TCE was detected in the vicinity of KDHE Trust Fund monitoring wells MW-7 (Sample #112), MW-A and MW-BR (MW-BR not sampled for the EPA 2018 PA). TCE concentration has decreased approximately an order of magnitude from the detection of 33 ug/L during the 2013 KDHE investigation to less than 5 ug/L during EPA 2018 PA. TCE detection downgradient of MW-7 was 0.94 ug/L in Sample #109/SB-11 immediately across State Avenue from the MW-7 area.

-TCE degradation products were only detected in MW-7/Sample #112 and Sample #109/SB-11 and both were below respective MCLs.

IS THE RELEASE SUBJECT TO THE LIMITATIONS ON RESPONSE: YES or NO X

EXPLAIN: According to the NCP there is no limitation on response based on the Sites prevailing conditions.

DOES THE QUANTITY OR CONCENTRATION WARRANT RESPONSE: YES or NO X

EXPLAIN: TCE and TCE-degradation products detected below MCLs.

HAS A PRP BEEN IDENTIFIED: YES or NO X

EXPLAIN:

A PRP search has not occurred. In June and July, 2012, KDHE conducted investigations of releases from Savage Philips 66 and Total Retail # 2125 underground storage tank (UST) sites. While soil and groundwater analytical data indicate presence of contamination, no definitive source has been identified. However, the area of solvent-related contaminants in groundwater appears to closely mimic the footprint of the petroleum contamination plume.

IV. CONDITIONS TO WARRANT REMOVAL [40 CFR 300.415(b)(2)]:

ACTUAL OR POTENTIAL EXPOSURE TO HAZARDOUS SUBSTANCES, OR POLLUTANTS, OR CONTAMINANTS: YES or NO X

EXPLAIN: No evidence to support an actual or potential exposure of humans to hazardous substances. No drinking water wells are close to the Site for contamination to occur.

ACTUAL OR POTENTIAL CONTAMINATION OF DRINKING WATER SUPPLIES: YES or NO X

EXPLAIN:

No evidence to support actual or potential contamination of drinking water supplies.

HAZARDOUS SUBSTANCES, POLLUTANTS, OR CONTAMINANTS IN DRUMS,
BARRELS, OR BULK STORAGE CONTAINERS:

YES ☐ or NO ☒

EXPLAIN:

No visible drums, barrels or bulk storage containers visible on site.

HIGH LEVELS OF HAZARDOUS SUBSTANCES, POLLUTANTS, OR CONTAMINANTS
IN NEAR-SURFACE SOILS:

YES ☐ or NO ☒

EXPLAIN:

-No trichloroethylene (TCE) or tetrachloroethylene (PCE) or degradation products were detected in soil samples.

CONDITIONS SUSCEPTIBLE TO IMPACT FROM ADVERSE WEATHER CONDITIONS: YES ☐ or NO ☒

EXPLAIN:

No structures on site appear overly susceptible to adverse weather conditions.

THREAT OF FIRE OR EXPLOSION: ☒

YES ☐ or NO ☐

EXPLAIN:

No abnormal threat of fire or explosion exist on site.

POTENTIAL FOR OTHER FEDERAL OR STATE RESPONSE MECHANISMS:
NO ☐

YES ☒ or

EXPLAIN:

Since the groundwater detections of petroleum constituents and/or gasoline additives are much more widespread than the TCE and TCE-degradation products, the KDHE Storage Tank program has been notified of the additional off-site detections and given the Preliminary Assessment (PA) Report. It appears that additional off-site migration of the known petroleum plume is the primary concern at the site.

Additional reasons why a State response mechanism may be appropriate are as follows:

TCE and TCE-degradation products are present at levels below the MCL, and are inside the boundaries of the area of groundwater impacted by petroleum and gasoline additives.

TCE appears to be of lower concern compared to the petroleum and gasoline additives (especially benzene and MTBE) present at much higher levels which have been detected further downgradient than TCE and TCE-degradation products. The suspected source of the petroleum contamination is already participating in KDHEs UST Trust Fund program.

OTHER SITUATIONS OR FACTORS WHICH POSE A THREAT:

YES ☐ or NO ☒

EXPLAIN: N/A

V. POTENTIAL REMOVAL ACTIONS [40 CFR 300.415(d)]:

None indicated.

SITE SECURITY:

YES ☐ or NO ☒

EXPLAIN:

DRAINAGE CONTROL:

YES ☐ or NO ☒

EXPLAIN:

STABILIZATION OR REMOVAL OF SURFACE IMPOUNDMENTS:

YES ☐ or NO ☒

EXPLAIN:

CAPPING OF CONTAMINATED SOIL:

YES ☐ or NO ☒

EXPLAIN:

USE OF CHEMICALS TO CONTROL/RETARD SPREAD OF CONTAMINATION:

YES ☐ or NO ☒

EXPLAIN:

CONTAMINATED SOIL EXCAVATION:

YES ☐ or NO ☒

EXPLAIN:

REMOVAL OF DRUMS, TANKS, OR BULK STORAGE CONTAINERS:

YES __ or NO X

EXPLAIN:

CONTAINMENT, TREATMENT, OR DISPOSAL OF HAZARDOUS SUBSTANCES, YES __ or NO X
POLLUTANTS, OR CONTAMINANTS:

EXPLAIN:

SUPERFUND REMOVAL SITE EVALUATION

VI. REMOVAL SITE EVALUATION DETERMINATION AND RECOMMENDATIONS:

X REMOVAL NOT WARRANTED - REMOVAL SITE EVALUATION TERMINATED

*(Cite one or more of the criteria from SECTION III. **REMOVAL SITE EVALUATION CRITERIA**, as the basis for the above determination.)*

		NOT A RELEASE		NOT A FACILITY OR VESSEL
		NOT A HAZARDOUS SUBSTANCE OR POLLUTANT OR CONTAMINANT		SUBJECT TO RESPONSE LIMITATIONS
	<u>X</u>	INSUFFICIENT QUANTITY OR CONCENTRATION		WILLING/CAPABLE PRP IDENTIFIED

COMMENT:

REMOVAL RECOMMENDED __ EMERGENCY __ TIME-CRITICAL __ NON-TIME-CRITICAL

*(Cite one or more of the conditions or factors from Section IV. **CONDITIONS TO WARRANT A REMOVAL ACTION**, as a basis for recommending that a removal action be conducted.)*

		EXPOSURE TO HAZARDOUS SUBSTANCES OR POLLUTANTS OR CONTAMINANTS		ADVERSE WEATHER IMPACTS
		CONTAMINATED DRINKING WATER		FIRE/EXPLOSION THREAT
		DRUMS, BARRELS OR CONTAINERS		NO OTHER RESPONSE MECHANISM
				OTHER FACTORS

*(Identify one or more of the removal actions listed in Section V. **REMOVAL ACTIONS WHICH MAY BE APPROPRIATE**, as examples of the types of response actions which are recommended.)*

		SITE SECURITY		DRAINAGE CONTROL		IMPOUNDMENT STABILIZATION
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	REMOVAL OF DRUMS, BARRELS, ETC.		SOIL CAPPING		SOIL EXCAVATION
	CONTAIN/TREAT/DISPOSE OF WASTES		CHEMICAL CONTROLS		ALT. DRINKING WATER SUPPLIES

COMMENT:

	ADDITIONAL REMOVAL SITE EVALUATION RECOMMENDED
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*(Cite one or more of the conditions or factors from Section IV. **CONDITIONS TO WARRANT A REMOVAL ACTION**, as a basis for recommending that additional site evaluation be performed.)*

	EXPOSURE TO HAZARDOUS SUBSTANCES OR POLLUTANTS OR CONTAMINANTS		ADVERSE WEATHER IMPACTS
	CONTAMINATED DRINKING WATER		FIRE/EXPLOSION THREAT
	DRUMS, BARRELS OR CONTAINERS		NO OTHER RESPONSE MECHANISM
			OTHER FACTORS

*(Identify one or more of the removal actions listed in Section V. **REMOVAL ACTIONS WHICH MAY BE APPROPRIATE**, as examples of the types of response actions which may be appropriate pending the results of further site evaluation.)*

	SITE SECURITY		DRAINAGE CONTROL		IMPOUNDMENT STABILIZATION
	REMOVAL OF DRUMS, BARRELS, TANKS		SOIL CAPPING		SOIL EXCAVATION
	CONTAIN/TREAT/DISPOSE OF WASTE		CHEMICAL CONTROLS		ALTERNATIVE DRINKING WATER SUPPLIES

VII. ADDITIONAL INFORMATION OR COMMENTS

VIII. CERTIFICATION

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5/8/18

OFFICE/AGENCY: SUPR/AERR/RRNS

IX. HAZARDOUS SUBSTANCES, POLLUTANTS OR CONTAMINANT INFORMATION:

[illegible]

